BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Estimate for Improvements to Roads and Drains at Anjanadri Layout, Kattigenahalli in Ward No.05, Byatarayanapura Sub Division.

							Estimate Cost Rs.		1950000.00
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 2-1.1: Earth work in surface excavation in **ordinary soil** for leveling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications, Specification No KBS 2.1(a) / 2.3.1.P. No. 5/ Item No. 2.1/ PWD SR 2013-14	cum							
	Desiltation Of Drains								
	Anjanadri Layout Main Road (Kattigenahalli)		2	210.00	0.45	0.10	18.90		
	Surface Levelling of road								
	Anjanadri Layout Main Road (Kattigenahalli)		1	210.00	7.00	0.15	220.50		
	Cross roads		1	65.00	6.00	0.15	58.50		
			1	70.00	6.00	0.15	63.00		
			1	50.00	6.00	0.15	45.00		
							405.90	126.36	**51290.00**
	Basic Rate	117.00							
	Area Weightage @ 8%	9.36							
	Total	**126.36**							
2	KSRB 2-2.1 : earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in **Hard soil** not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No. KBS 2.1(b) / 2.3.5, No. 5/ Item No. 2.4/ PWD SR 2013-14	Cum							
	For culverts		2	6.50	1.80	1.05	24.57		
	For New Slab Drains at Cros Road		2	150.00	0.75	0.75	168.75		
							193.32	227.88	**44054.00**
	Basic Rate	211.00							
	Area Weightage @ 8%	16.88							
	Total	**227.88**							
3	Removing B.S Slab of Drain and stacking Page No. 28/ Item No. 5.32/ PWD SR 2013-14	Sqm							
	Anjanadri Badavane main road		2	220.00	1.35		594.00		
							594.00		
	Deduct 20% Missing Slabs						118.80		
							475.20	50.11	**23813.00**

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Basic Rate	46.40							
	Area Weightage @ 8%	3.71							
	Total	**50.11**							
4	Refixing stone slabs of drains and pointing in C.M (1:3) Page No. 28/ Item No. 5.33/ PWD SR 2013-14	Sqm							
			Qty Vide Item No.3				475.20		
							475.20	**70.04**	**33282.00**
	Basic Rate	64.85							
	Area Weightage @ 8%	5.19							
	Total	**70.04**							
5	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete 7.5 cms thick Page No. 28/ Item No. 5.31 / PWD SR 2013-14	Sqm							
	for 20% missing slabs						118.80		
	For new slab at cross roads		2	150.00	1.35		405.00		
							523.80	343.44	**179894.00**
	Basic Rate	318.00							
	Area Weightage @ 8%	25.44							
	Total	**343.44**							
6	KSRB-4-1.3 : Providing and laying in position p**lain cement concrete of mix M 7.5** withOPC cement at 180kgs. with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not exceeding 15cms. thick well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1.4.2, No. 12/ Item No. 4.3/ PWD SR 2013-	Cum							
	For Culverts		2	6.50	1.80	0.15	3.51		
							3.51	4290.84	**15061.00**
	Basic Rate	3973.00							
	Area Weightage @ 8%	317.84							
	Total	**4290.84**							
7	KSRB 5.2.3 Providing and constructing granite / trap / basalt size stone masonry in **foundation** with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 25/ Item No. 5.6/ PWD SR 2013-14	cum							
			2X2	6.50	0.60	0.45	7.02		
							7.02	3549.96	**24921.00**
	Basic Rate	3287.00							
	Area Weightage @ 8%	262.96							
	Total	**3549.96**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
8	KSRB 5.3-3 Providing and constructing granite / trap / basalt size stone masonry **in basement** with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 26/ Item No. 5.9/ PWD SR 2013-14	**cum**							
			2X2	6.50	0.45	0.45	5.27		
							5.27	4227.12	**22256.00**
	Basic Rate	3914.00							
	Area Weightage @ 8%	313.12							
	Total	**4227.12**							
9	KSRB 4-1.7 : Providing and laying in position plain cement concrete of mix **M10** withOPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not exceeding 15cms thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2/P No. 13/ Item No. 4.7/ PWD SR 2013-14	**cum**							
			2X2	6.50	0.45	0.10	1.17		
							1.17	4737.96	**5543.00**
	Basic Rate	4387.00							
	Area Weightage @ 8%	350.96							
	Total	**4737.96**							
10	KSRB 15.1.1: Providing **Flush pointing** to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications Page No. 119/Item No. 15.10/ PWD SR 2013-14	**sqm**							
			2X2	6.50		0.50	**13.00**		
							13.00	79.92	**1039.00**
	Basic Rate	74.00							
	Area Weightage @ 8%	5.92							
	Total	**79.92**							
11	KSRB 4-6.7 Providing and **removing centering, shuttering, strutting, propping etc**., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 17/ Item No 4.34/ PWD SR 2013-	Sqm							
	For culvert deck slab		2X2	6.50		0.23	5.98		
			2X2	1.80		0.23	1.66		
							7.64	244.08	**1864.00**
	Basic Rate	226.00							
	Area Weightage @ 8%	18.08							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Total	**244.08**							
12	KSRB 4.2.2 : Providing and laying in position **Reinforced cement concrete of mix M20** withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, **No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2013-14**	Cum							
	For Culverts		2	6.50	1.80	0.23	5.38		
							5.38	5639.76	**30353.00**
	Basic Rate	5222.00							
	Area Weightage @ 8%	417.76							
	Total	**5639.76**							
13	KSRB 4.9.2 providing **T.M.T steel** reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. FE 415 Specification No. KBS 4.6.3 Page No. 19/ Item No. 4.46/ PWD SR 2013-14	Qtl							
	For Culvert Deck Slab 70 Kg / Cum		0.70	5.38			3.77		
							3.77	7380.72	**27806.00**
	Basic Rate	6834.00							
	Area Weightage @ 8%	546.72							
	Total	**7380.72**							
14	KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to **wet mix macadam** specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications, MORTH specification NO. 406, No. 170/ Item No. 20.18/ PWD SR 2013-14	Cum							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Anjanadri Layout Main Road (Kattigenahalli)		1	210.00	7.00	0.15	220.50		
	Cross roads		1	65.00	6.00	0.15	58.50		
			1	70.00	6.00	0.15	63.00		
			1	50.00	6.00	0.15	70.10		
							412.10	1121.04	**461981.00**
	Basic Rate	1038.00							
	Area Weightage @ 8%	83.04							
	Total	**1121.04**							
15	KSRRB 500-4: providing and applying **primer coat** from 7.5 to 9.8 kg and 9.8 to 12.2kg per 10 sqm for surfaces of low and medium porosity respectively over prepared surface of granular base with cut bank M.C-70 or any other bitumen mixed with diesel at 10 kg per 10 sqm heated in bitumen boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications MORTH chapter 5, No. 175/ Item No 21.4.2/ PWD SR 2013-14 Medium Porosity	Sqm							
	Anjanadri Layout Main Road (Kattigenahalli)		1	210.00	7.00		1470.00		
	Cross roads		1	65.00	6.00		390.00		
			1	70.00	6.00		420.00		
			1	50.00	6.00		467.50		
							2747.50	100.60	**276404.00**
	Basic Rate	93.15							
	Area Weightage @ 8%	7.45							
	Total	**100.60**							
16	KSRRB M500-18: Providing and laying **semi dense bituminous concrete 25mm thick** with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 500.8 complete in all respects as per specifications. 25-30mm compacted thikness with 5% Birumen80/100grade (gradingII) P.No. 178/ Item No. 21.20.1/ PWD SR 2013-14	Cum							
	Anjanadri Layout Main Road (Kattigenahalli)		1	210.00	7.00	0.025	36.75		
	Cross roads		1	65.00	6.00	0.025	9.75		
			1	70.00	6.00	0.025	10.50		
			1	50.00	6.00	0.025	11.65		
							68.65	9631.44	**661198.00**
	Basic Rate	8918.00							
	Area Weightage @ 8%	713.44							
	Total	**9631.44**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
17	KSRRB M800-13: Road marking with hot applied thermoplastic compound with reflect rising glass beads on bituminous surface-providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface to level, uniform and free from streaks and holes complete as per specifications. MORTH specification No. 803, **No. 168/ Item No. 24.15PWD SR 2011-12**	Sqm					52.50		
	Anjanadri Layout Main Road (Kattigenahalli)		2.5	240.00	0.10		60.00	429.96	24738.00
							60.00	429.84	**25790.00**
	Basic Rate	398.00							
	Area Weightage @ 8%	31.84							
	Total	**429.84**							
18	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123,	Cum					599.22		
			Qty. Vide Item No. 1+2				**625.92**	72.31	43569.00
	Average Weight of Earth 1.28 Ton/Cum						**625.92**	67.32	**42137.00**
	Basic Rate Lead Charges Upto 2.00 Kms	5.12							
	PWD SR 2010-11 (P.118/I.17.1) For loading and unloading	62.20							
	Total	**67.32**							
19	**For Third Party QC Charges 1%**								**19500.00**
									1396.00
20	Miscesallaneous Charges	L/S							**1202.00**
								Total	**1950000.00**

(Rupees Ninteen Lakhs Fifty Thousand Only)

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2012-13
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Sub Division

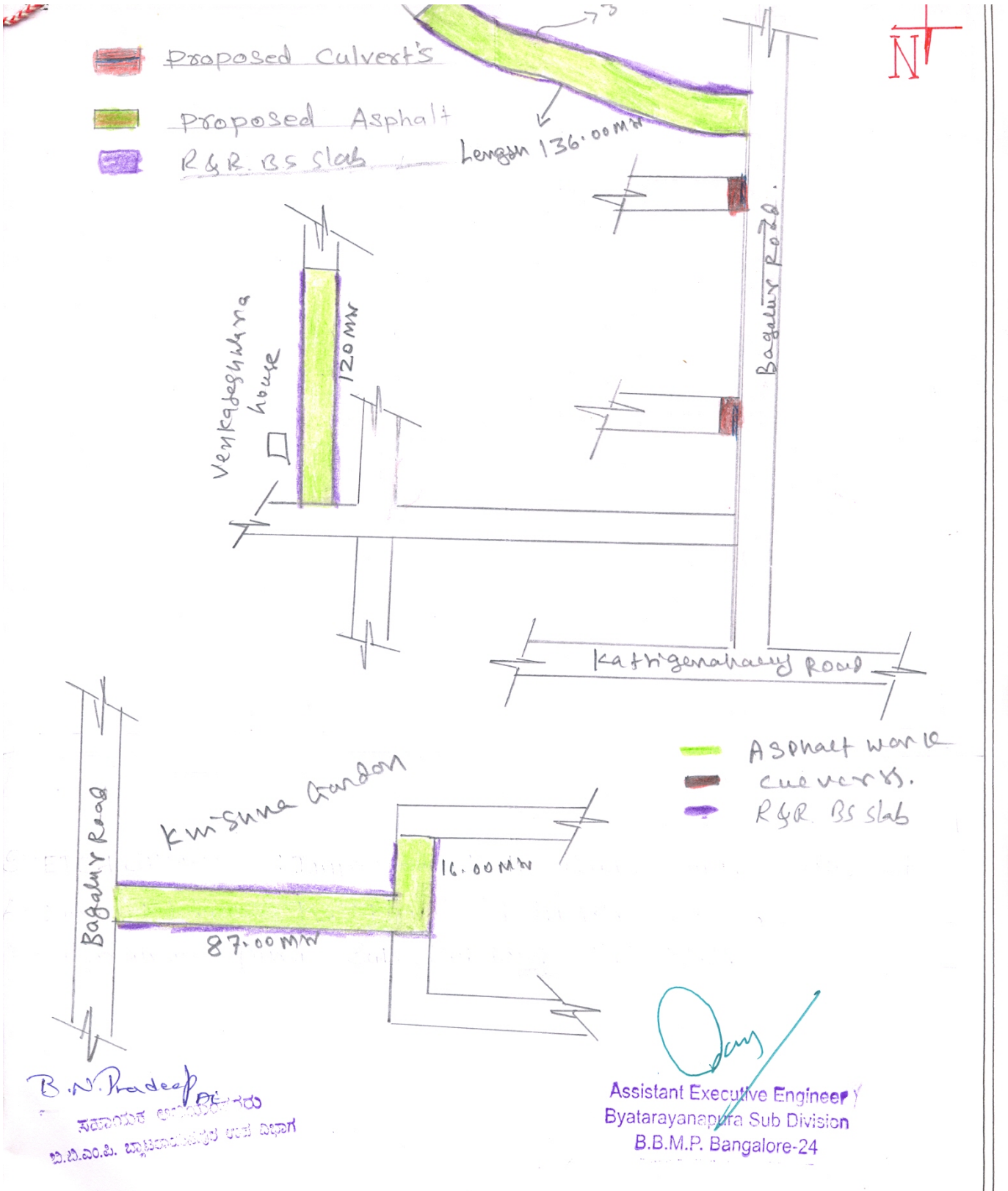
ADMINISTRATIVELY SANCTIONED FOR Rs. 19.50 lakhs
Rupees Ninteen Lakhs fifty thousand only
Under EE (B)
Subject to conditions contained in enclosed note to EE( ) No.
Dt. Estimate A/Manner sanctioned JC(4) PRA/A/S 94/13-14 dated 7.8.2013 Rs. 19.50 lakhs

Technical Sanction for Rs. 19.50 lakhs
Nineteen fifty lakhs
P. 2654
Supplemental as per Bill No. 02 Dt. 12.08.13 Subject conditions contained enclosed memo. 08/13-14 dt. 12.08.13

AE

EE (BTP.Div)

Joint Commissioner (Yelahanka Zone) BBMP, Bengaluru-92



B.N. Pradeep

Assistant Executive Engineer
Byatarayanapura Sub Division
B.B.M.P. Bangalore-24